

CHECKLIST OF ACTIONS

To Promote Pollinators In Yards, Gardens & Parks

KEY:

Promotes foraging resources

Helps protect pollinators from pesticide exposure

K	Promotes nesting ar	nd overwintering	habitat
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Contributes to pollinator conservation in your community

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88 V	Plant a native wildflower garden that includes species that bloom in succession	n all season long and are high-value to pollinators (species with 🛊 on Table 1, page 12).				
88 V	Plant native bunchgrasses; these plants are food for rare butterflies and also	help provide nesting sites for bees.				
€	Reduce lawn footprint by converting as much as possible to <i>flowering</i> habitat.					
	Plant spring-blooming native wildflowers, such as woodland ephemerals in s	shady areas.				
88 €	Plant spring-blooming native shrubs and trees, such as willows (Salix), maple	es (Acer), and native fruit trees and shrubs.				
88	Plant summer-blooming native wildflowers, such as blazing star (Liatris), bee	e balm (Monarda), and numerous others.				
***	Plant summer- or fall-blooming native shrubs, such as wild roses (Rosa) or n	neadowsweet (Spirea).				
88	Plant fall-blooming native wildflowers, such as asters (Symphyotrichum),	2 III II 2 2 10.				
	native sunflowers (Helianthus), and goldenrods (Solidago).					
88 €	Plant native trees that serve as important host plants for a wide variety					
	of butterflies and moths (species with a on Table 1 , page 12).	Why Plant Native?				
889	Plant native milkweed (Asclepias), violets (Viola), pawpaws (Asimina),					
	or other regionally appropriate plants that provide critical food for	Native plants have a very long history of naturally occurring in the wild				
	specialist butterflies and moths.	ecosystems of a given area (pre-European settlement of the Americas).				
8 €	Plant species known to provide food for specialist bees in your region	Non-native plants naturally occur in other parts of the world or the				
	(species with on Table 1, page 12).	country, but may be grow well in your area as ornamental or garden				
88°	Gradually replace perennial and annual landscaping that provides	plants. Some non-native plants have the tendency to escape into the				
	little value to wildlife (e.g., daylilies, hostas, pansies) with more diverse	wild and become invasive, replacing natives plants and causing serious				
	native wildflower plantings.	ecological and economic problems. Although pollinators may find				
888	If non-native plants are included in landscaping, choose varieties that	some nutritional value from non-native plants, native plants do the				
	are known to have value to pollinators (e.g., flowers with ample pollen	best job of supporting the widest array of native pollinators, given their				

or nectar) AND that are not invasive or aggressive.

or other related insecticides.

Remove invasive species from your landscape, as well as any non-native

species that appear to be spreading into wild areas (e.g., butterfly-bush).

Ensure that new landscaping plants were not treated with neonicotinoids

Why Plant Native?

Native plants have a very long history of naturally occurring in the wild ecosystems of a given area (pre-European settlement of the Americas). Non-native plants naturally occur in other parts of the world or the country, but may be grow well in your area as ornamental or garden plants. Some non-native plants have the tendency to escape into the wild and become invasive, replacing natives plants and causing serious ecological and economic problems. Although pollinators may find some nutritional value from non-native plants, native plants do the best job of supporting the widest array of native pollinators, given their long co-evolutionary history. In fact, roughly 1/3 of bee species will only collect pollen from particular native plants, and most butterfly and moth caterpillars can only feed on particular native plant leaves.

AW	N 8	Y	ARD CARE
\equiv	-	12	Avoid pesticides (including herbicides, insecticides, and fungicides) on lawns and other landscaping; choose less harmful alternatives such as non-chemical controls. For mowed areas, reduce mowing frequency and increase mowing height, allowing flowering weeds to flourish. Leave dead wood on site, including dead logs, snags, and brush; consider planting flowers around these features, to add intention and aesthetic value. Leave leaf litter on-site—keep a thin layer of leaves on lawn; use the rest to mulch trees/ shrubs/ garden and/or rake to woodland edges if available. Leave bare spots or areas with patchy vegetation in lawn; avoid thick turf and sod. Avoid plastic mulch/ weed barrier, heavy wood chips, and treated wood chips. Leave dead wildflower stems standing over the winter; prune them back in early spring to 8–12" to create nesting sites for stem-nesting bees. Prune shrubs with pithy stems, to create nesting sites for stem-nesting bees. Leave some areas of lawn unmown to create tall grass habitat. Install a water feature (e.g., bird bath with stones to prevent insects from drowning) for pollinators that need water for nest building or other uses. Seed a "bee lawn" (incorporate clovers & other flowers into new or existing lawn).
RUI	T &	VE	EGETABLE GARDENS
	V	88	Plant fruit trees and fruit-bearing shrubs, including native species when possible (e.g., blueberries [<i>Vaccinium</i>], currants and gooseberries [<i>Ribes</i>], elderberries [<i>Sambucus</i>], chokeberries [<i>Aronia</i>]—species with \P on Table 2, page 12).
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The After	Thank marre tapporties, backberries (twows), prairs in comp pring to create nest sites for stelling bees.
₹	For more continuous fruit and flowers, plant ever-bearing varieties of strawberries (Fragaria), raspberries, and other fruits.
888	Plant a tea or herb garden and allow plants like basil (Ocimum), mint (Mentha), and lavender (Lavendula) to flower; most herbs do very well in containers if space
	is limited (see Table 2, page 12).
88	Plant bee pollinated vegetables like squash (Cucurbita) and tomatoes (Solgnum) and allow pollinator-attractive culinary garden plants—such as lettuce (Lactuca)

and mustard (Brassica)—to bolt in order to provide additional floral resources (see Table 2, page 12).

Avoid pesticide use on fruit and vegetable crops; manage pests by using prevention strategies (e.g., crop rotation or selection of resistant varieties) and nonchemical pest control methods (e.g., hand-picking or insectary plantings to promote beneficial insects for natural pest control).

OIV	IMIL	INI	TY ACTION
	50	*	Organize a neighborhood native plant or seed exchange (never share non-native plants that are aggressive / potentially invasive).
	1	8	Create habitat in community hubs (e.g., libraries, post-offices, schools, or senior centers) or in unused spaces like sidewalk medians.
	20	8	Volunteer with a local park to improve habitat (e.g., removing invasive species or collecting wildflower seeds).
	2	2	Provide signage to explain your pollinator conservation actions to your neighbors.
	2	2	Host a tour of your pollinator friendly yard or garden.
	20	2	Talk about pollinators and their habitat needs to your neighbors, friends, family, local businesses, schools, library, church, etc.
	2	2	Talk to your city officials or local colleges about signing a bee friendly resolution and/or getting certified as a Bee City USA or Bee Campus USA.
\Box	2	•	Participate in a community science project, such as bumble bee or monarch monitoring (see Resources, page 11).

Xerces Society Recommended High Value Plants for Pollinators

- ★ POLLINATOR "SUPERFOODS"—Certain native plants are known to provide exceptional forage for a wide variety of bees and other pollinators, including monarchs. See table below for a list of some of these plants.
- ★ FOOD FOR SPECIALIST BEES—Many native bees are "specialists," only collecting pollen and other resorces from specific plants. See table below for a list of plants known to provide food for a number of specialist bees.

NOTE: These lists are not exhaustive—see Resource section to identify additional native plants for your site. Some of these plants may not be appropriate for every region/site.

	TABLE 1: SUPERFOODS & HOST PLANTS)		
	HIGH VALUE PLANTS Appropriate for <i>Most</i> Regions			
Agastache [giant hyssop]— Asclepias [milkweed]— Cirsium [thistle (native)]— Echinacea [purple coneflower]— Euthamia [goldentop]—	 → Helianthus [sunflower]—★ → Lupinus [lupine]— → Monarda/Monardella [beebalm]— → Penstemon [beardtongue]— → Ratibida [coneflower]— 	Solidago [goldenrod]— Solidago [goldenrod]— Symphyotrichum [aster]— Verbena [vervain]— Viola [violets]—		
Acer [maple]— Amelanchier [serviceberry]— Amorpha [leadplant/false indigo]— Ceanothus [wild lilac]— Cercis [redbud]— Cornus [dogwood]—	Pinus [pine]— Prunus [wild plum]— Quercus [oak]— Rhus [sumac]— Ribes [currant]— Rosa [wild rose]—	 Rubus [raspberry/blackberry]—★ Salix [willow]—★ Sambucus [elderberry]— Spiraea [spirea/meadowsweet]—★ Vaccinium [blueberry/cranberry]—★ Viburnum [arrowwood/viburnum]—★ 		
# Andropogon [bluestem]— Bouteloua [grama]— Carex [sedges]— Carex [sedges]— Andropogon [bluestem]	# Elymus [wheatgrass, wildrye]— # Hierochloe [sweetgrass] # Koeleria [Junegrass]—	₩ Muhlenbergia [muhly]— ₩ Schizachyrium [little bluestem]— ₩ Sporobolus [dropseed]—		
	HIGH VALUE PLANTS for Specific Regions			
Pacific Northwest	Great Plains & Intermountain West	Great Lakes & Northeast		
Baccharis [coyotebrush]— Berberis [barberry]— Clarkia [clarkia]— Cleome [bee plant]— Fragaria [strawberry]— Grindelia [gumweed]— Helenium [sneezeweed]— Phacelia [phacelia]— Rhamnus [buckthorn]—	Callirhoe [poppymallow]— Dalea [prairie clover]— Ericameria [goldenbush, rabbitbrush]— Friogonum [wild buckwheat]— Geranium [wild geranium]— Heterotheca [false goldenaster]— Machaeranthera [tansyaster]— Cenothera [evening primrose]— Sphaeralcea [globemallow]— Vernonia [ironweed]—	Cephalanthus [buttonbush] Dalea [prairie clover] Eutrochium [joe pye weed] Ilex [holly] Liatris [blazing star] Packera [ragwort] Pycnanthemum [mountain mint] Silphium [cup plant] Zizia [Alexanders, zizia] Carya [hickory]		
Southwest & California	Midwest & South Central	Southeast & Mid-Atlantic		
Arctostaphylos [manzanita]— Baccharis [coyotebrush]— Berberis [barberry]— Bidens [beggarticks]— Eriogonum [wild buckwheat]— Grindelia [gumweed]— Larrea [creosote bush]— Monardella [monardella]— Phacelia [phacelia]— Salvia [sage]—	Boltonia [doll's daisy/false aster]— Chamaecrista [partridge pea]— Eutrochium [joe pye weed]— Helenium [sneezeweed]— Liatris [blazing star]— Pycnanthemum [mountain mint]— Silphium [cup plant]— Tillia [basswood]— Verbesina [wingstem]— Zizia [Alexanders, zizia]—	Baptisia [wild indigo]— Coreopsis [tickseed]— Desmodium [tick-trefoil]— Eutrochium [joe pye weed]— Gaillardia [blanketflower]— Helenium [sneezeweed]— Hibiscus [rosemallow]— Ilex [holly]— Liatris [blazing star]— Vernonia [ironweed]— Vernonia [ironweed]— *** *** *** *** *** ** ** **		

9 A	belmoschus esculentus [okra]	\$	Cucumis [cucumber, melon]	9	Origanum vulgare* [oregano]
A A	Illium*† [chives, garlic, leek, onions, shallot]	9	Cucurbita† [pumpkin, squash]	9	Passiflora† [passionfruit]
9 A	Imelanchier† [juneberry, serviceberry]		Diospyros virginiana† [common persimmon]		Persea americana [avocado]
9 A	simina† [pawpaws]	9	Fagopyrum esculentum* [buckwheat]	9	Phaseolus† [bean (common, scarlet runner, wild
9 A	nethum graveolens* [dill]	\$	Foeniculum vulgare* [fennel]		Prunus [†] [almond, apricot, cherry, peach, plum]
9 B	Brassica* [broccoli, cabbage, cauliflower, kale]	9	Fragaria† [strawberry]		Pyrus [pear]
9 0	alendula [calendula]	9	Helianthus annuus† [sunflower]		Ribes† [currant (black, golden, red)]
9 0	apsicum† [peppers (bell/chili, habanero)]	9	Lavandula [lavender]	9	Rosa† [rose (dogrose, hybrid tea, wild)]
· C	astanea† [chestnut, chinquapin]		Malus† [apple, crab apple]		Rubus† [blackberry, raspberry]
9 0	itrullus [pine melon, watermelon]	9	Matricaria* [chamomile]	9	Sambucus† [elderberry (black, blue, red)]
· C	itrus [lemon, lime, tangerine]	9	Mentha*+ [mint]	9	Solanum† [eggplant, potato, tomato]
9 0	oriandrum sativum* [coriander/cilantro]	9	Ocimum* [basil]	9	Vaccinium [†] [blueberry, cranberry]
9 0	orylus† [hazelnut]		Opuntia† [prickly pear]	9	Vicia† [fava bean, vetch]